Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An acoustic model creating method for performing speech recognition within a space-vehicle having noise, the method comprising:

collecting various types of noise collectable within the space having noise;

creating plural types of noise data by classifying the noise collected; plural types of collectible noise due to effects of at least one of weather conditions, a traveling state of the vehicle, a traveling location of the vehicle, and operational states of apparatuses mounted in the vehicle;

creating plural types of noise-superposed speech data by superposing the plural types of noise data on standard speech data;

creating plural types of noise-removed speech data by performing a noise removal process on the plural types of noise-superposed speech data; and

creating plural types of acoustic models using the plural types of noiseremoved speech data.

- 2. (Original) The acoustic model creating method according to Claim 1, the noise removal process performed on the plural types of noise-superposed speech data being carried out using a noise removal method suitable for each of the noise data.
 - 3-4. (Canceled).
- 5. (Original) An acoustic model creating method according to Claim 1, collecting noise comprising a recording step of recording individual noise parameters corresponding to the plural types of noise to be collected, and

the plural types of noise to be collected being classified using each noise parameter corresponding to the plural types of noise to be collected, thereby creating the plural types of noise data.

6. (Currently Amended) A speech recognition apparatus for performing speech recognition within a space-vehicle having noise, the apparatus comprising:

a sound input device that inputs speech to be recognized and other noise;

plural types of acoustic models created by an acoustic model creating method,
the acoustic model creating method comprising:

collecting various types of noise collectable within the space having noise; creating plural types of noise data by classifying-the collected noise plural types of collectible noise due to effects of at least one of weather conditions, a traveling state of the vehicle, a traveling location of the vehicle, and operational states of apparatuses mounted in the vehicle;

creating plural types of noise-superposed speech data by superposing the created plural types of noise data on previously prepared standard speech data; creating plural types of noise-removed speech data by performing a noise removal process on the created plural types of noise-superposed speech data; and

creating plural types of acoustic models using the created plural types of noiseremoved speech data;

a noise data determination device that determines which noise data of the plural types of noise data corresponds to the noise inputted from the sound input device;

a noise removal processing device that performs noise removal on the noisesuperposed speech data on which the noise inputted from the sound input device are superposed based on the result of the determination of the noise data determination device; and a speech recognition device that performs speech recognition on the noiseremoved speech data, from which noise is removed by the noise removal processing device, using one of the plural types of acoustic models corresponding to the noise data determined by the noise data determination device.

- 7. (Previously Presented) The speech recognition apparatus according to Claim 6, the speech recognition apparatus further comprising a noise parameter acquisition device that acquires noise parameters corresponding to the noise inputted from the sound input device.
- 8. (Previously Presented) The speech recognition apparatus according to Claim 6, the noise removal process on the plural types of noise data obtained by the classification being performed using a noise removal method suitable for each of the noise data.
 - 9-10. (Canceled).
- 11. (Original) The speech recognition apparatus according to Claim 6, collecting noise comprising recording individual noise parameters corresponding to the plural types of noise to be collected, and

the plural types of noise to be collected being classified using each noise parameter corresponding to the plural types of noise to be collected, thereby creating the plural types of noise data.

- 12. (Original) The speech recognition apparatus according to Claim 6, the noise removal process at the time of creating the plural types of acoustic models and the noise removal process at the time of performing speech recognition on the speech to be recognized being performed using the same noise removal method.
- 13. (Original) A speech recognition apparatus for performing speech recognition within a space having noise using plural types of acoustic models created by an acoustic model creating method according to Claim 1, the apparatus comprising:

a sound input device that inputs speech to be recognized and other noise;

a noise data determination device that determines which noise data of

previously classified plural types of noise data corresponds to the current noise inputted from
the sound input device;

a noise removal processing device that performs noise removal on noisesuperposed speech data on which the noise inputted from the sound input device are superposed based on the result of the determination of the noise data determination device; and

a speech recognition device that performs speech recognition on noiseremoved speech data, from which noise is removed by the noise removal processing device, using one of the plural types of acoustic models corresponding to the noise type determined by the noise data determination device.

- 14. (Original) A vehicle having a speech recognition apparatus which is able to be operated by speech, the speech recognition apparatus being the speech recognition apparatus according to Claim 6.
- 15. (New) An acoustic model creating method according to claim 1, wherein creating plural types of noise data comprises: creating plural types of noise data by classifying plural types of collectible noise due to effects of at least one of weather conditions, and a traveling state of the vehicle, a traveling location of the vehicle.
- 16. (New) A speech recognition apparatus according to claim 6 wherein creating plural types of noise data comprises: creating plural types of noise data by classifying plural types of collectible noise due to effects of at least one of weather conditions, a traveling state of the vehicle, and a traveling location of the vehicle.